Chem-Impex International, Inc.

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E-mail: sales@chemimpex.com Web site: www.chemimpex.com

Manufacturing site:

825 Dillon Drive

Shipping and Correspondence:

Wood Dale, IL 60191 Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number 12435

Lot Number 000424-190902-36631

Product Fmoc-D-glutamic acid α-allvl ester

Fmoc-D-Glu-OAll

 $\begin{array}{lll} \textbf{CAS Number} & 204251\text{-}86\text{-}5 \\ \textbf{Molecular Formula} & C_{23}H_{23}NO_6 \\ \textbf{Molecular Weight} & 409.43 \\ \end{array}$

Appearance White powder

Solubility Clear solution (0.3 g in 2 mL DMF)

Melting Point 117.0 - 119.9 °C

Water Content (Karl

Fisher)

935 Dillon Drive

0.18%

Optical Rotation [a]_D²⁰ = 20.6 ° (C=1 in DMF)

Infrared SpectrumConforms to structureAnalysis by Mass SpectraConforms to standardLoss on Drying0.15% (50 °C, 2 hr)

¹**H NMR** Conforms to structure

 Chiral HPLC
 99.97% (ee)

 L-Enantiomer
 0.0341%

 Purity by HPLC
 99.17%

Storage Store at 0 - 8 °C

Remarks See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Bala Kumar

Quality Control Manager